

FIG. 1

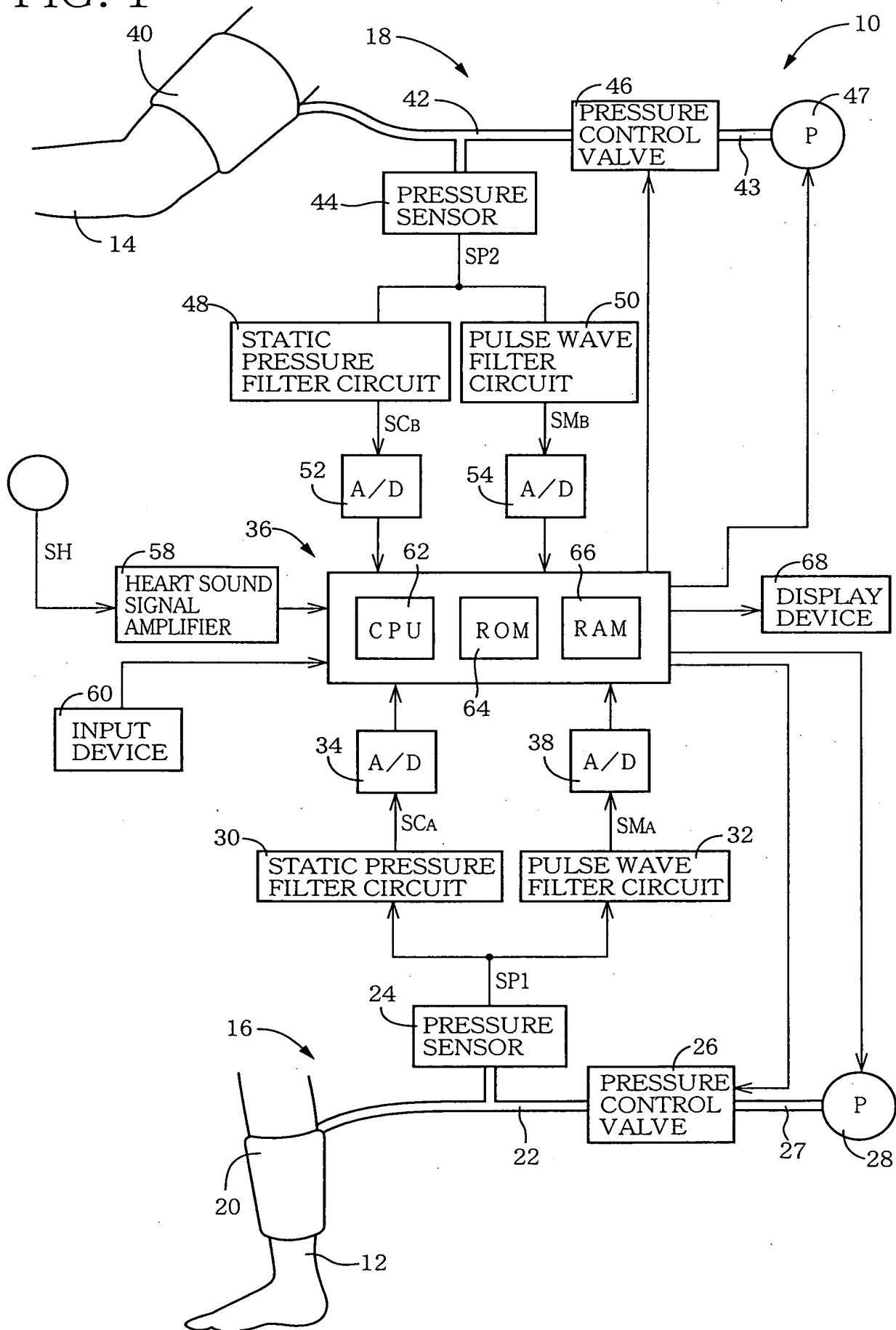


FIG. 2

FIG. 2 is a block diagram of a blood pressure measuring apparatus for a human body. The apparatus is divided into two main sections: one for the upper body (brachium) and one for the lower body (ankle).

Upper Body (Brachium) Section:

- Heart Sound Amplifier (56):** Receives heart sound signals and outputs to the **Static Pressure Filter Circuit (48)**.
- Static Pressure Filter Circuit (48):** Filters static pressure signals and outputs to the **Pulse Wave Filter Circuit (50)**.
- Pulse Wave Filter Circuit (50):** Filters pulse wave signals and outputs to the **Pressure Sensor (44)**.
- Pressure Sensor (44):** Measures pressure and outputs to the **Pressure Control Valve (46)**.
- Pressure Control Valve (46):** Controls the pressure in the **Cuff Pressure Changing Means (70)**.
- Cuff Pressure Changing Means (70):** Changes the cuff pressure and outputs to the **Pressure Sensor (44)** and the **Pressure Sensor (24)**.
- Pressure Sensor (44):** Outputs to the **Second Pulse Wave Propagation Velocity Determining Means (80)**.
- Second Pulse Wave Propagation Velocity Determining Means (80):** Determines the second pulse wave propagation velocity and outputs to the **Arteriosclerosis Judging Means (100)**.
- Arteriosclerosis Judging Means (100):** Judges arteriosclerosis and outputs to the **Display Device (68)**.

Lower Body (Ankle) Section:

- Static Pressure Filter Circuit (30):** Filters static pressure signals and outputs to the **Pulse Wave Filter Circuit (32)**.
- Pulse Wave Filter Circuit (32):** Filters pulse wave signals and outputs to the **Pressure Sensor (24)**.
- Pressure Sensor (24):** Measures pressure and outputs to the **Pressure Control Valve (26)**.
- Pressure Control Valve (26):** Controls the pressure in the **Cuff Pressure Changing Means (70)**.
- Cuff Pressure Changing Means (70):** Changes the cuff pressure and outputs to the **Pressure Sensor (24)** and the **Pressure Sensor (44)**.
- Pressure Sensor (24):** Outputs to the **First Pulse Wave Propagation Velocity Determining Means (72)**.
- First Pulse Wave Propagation Velocity Determining Means (72):** Determines the first pulse wave propagation velocity and outputs to the **Arteriosclerosis Judging Means (100)**.

Common and Output Section:

- Arteriosclerosis Judging Means (100):** Receives inputs from the **Second Pulse Wave Propagation Velocity Determining Means (80)** and the **First Pulse Wave Propagation Velocity Determining Means (72)**.
- Arteriosclerosis Judging Means (100):** Outputs to the **Display Device (68)**.
- Display Device (68):** Displays the results and outputs to the **Display Control Means (82)**.

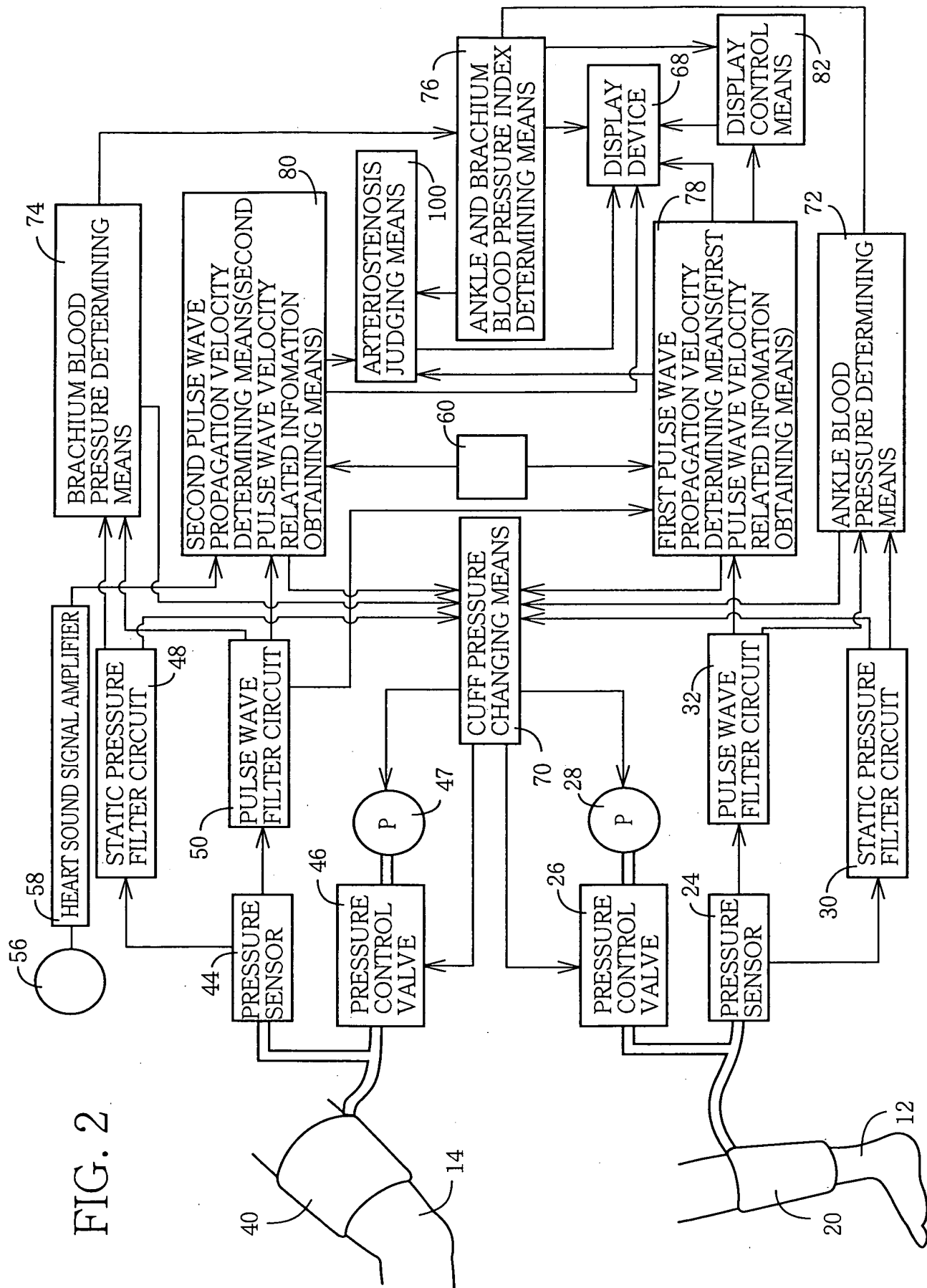


FIG. 3

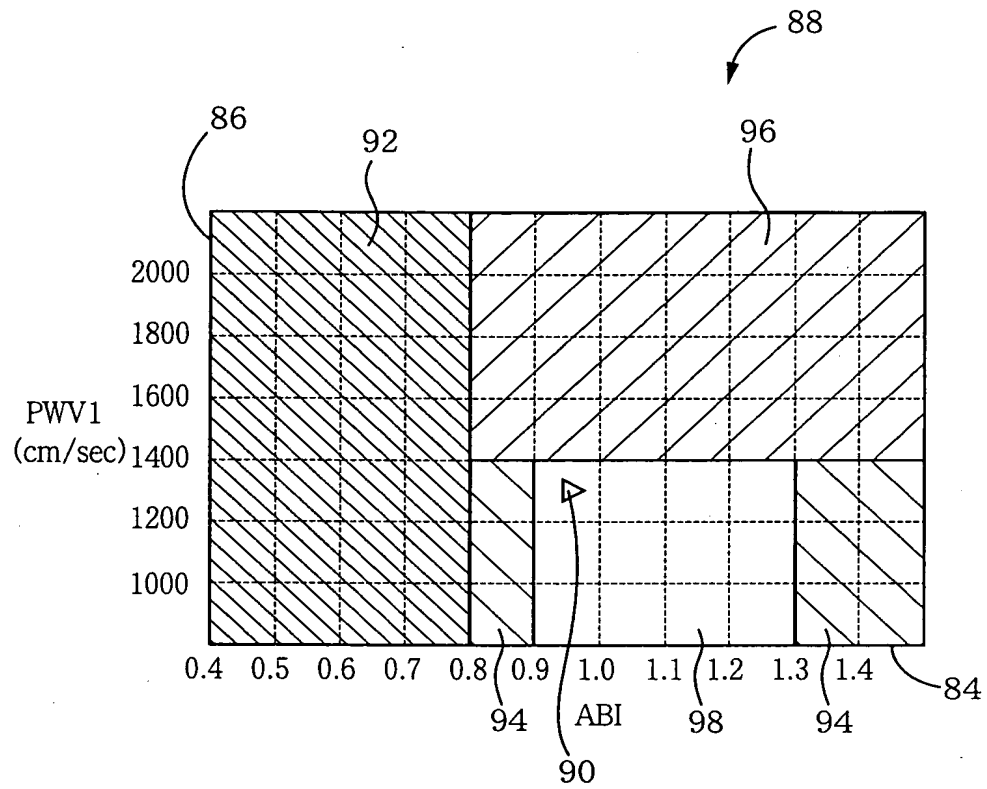


FIG. 4

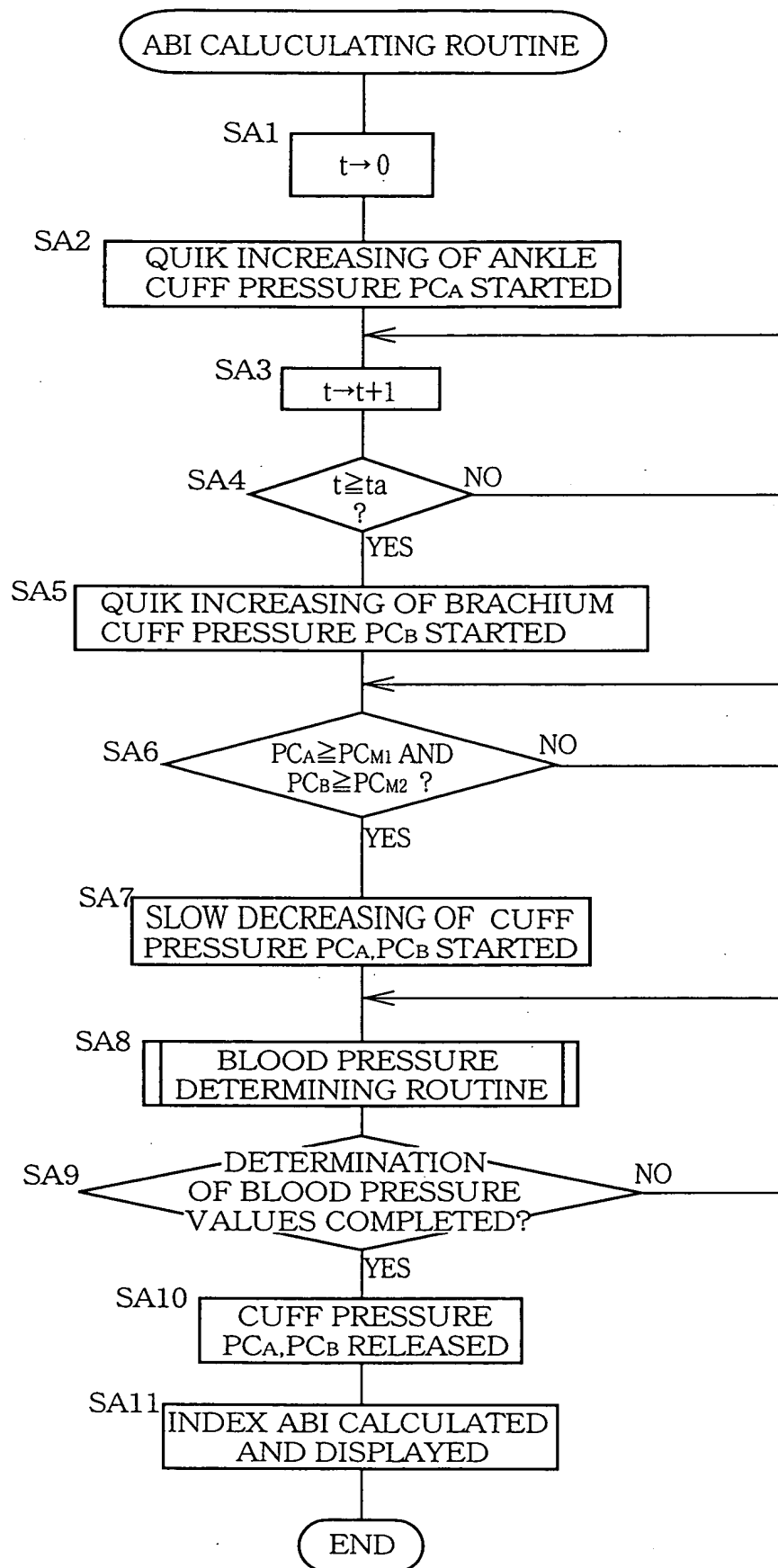


FIG. 5

